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**UTILITY** PATENT APPLICATION **TRANSMITTAL** 

nprovisional applications under 37 CFR 1.53(b))

Attorney Docket No.	1875.5510000	
First Inventor	Hung-Sung Li	7
	Fully Differential Input Buffer with Wide Signal Swing Range	ď
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	PLICATION ELEMENTS  - 600 concerning utility patent application contents.	AL	DDR.	ESS TO:	Mail Stop Paten Commissioner I P.O. Box 1450 Alexandria VA	for Patents	22553
(Submit an original Submit and Sub	[ Total Pages 21 ]  Ingement set forth below)  e of the Invention  ce to Related Applications  arding Fed sponsored R & D  equence listing, a table,  program listing appendix  it the Invention  y of the Invention  on of the Drawings (if filed)  injuin	; 	Nucle (if a.  b. Sp	Ippendix) otide and/or Ar applicable, all n Computer Rea ecification Seque i.	mino Acid Seq ecessary)  Idable Form (CF ence Listing on: ROM or CD-R ( r rifying identity of PANYING AF	(2 copies); or	
5. Oath or Declaration	[Total Pages 2]	11.		English Transl	ation Document	t (if applicable)	
	secuted (original or copy) m a prior application (37 CFR 1.63(d))	12.		Information Di Statement (IDS		Copies of IDS Citations	
	nuation/divisional with Box 18 completed)	13.		Preliminary Ar	nendment		
i. 🗀	DELETION OF INVENTOR(S) Signed statement attached deleting inventor(s)	14.	×	Return Receipt (Should be speci	t Postcard (MPE fically itemized)	EP 503)	
	named in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b).	15.		Certified Copy (if foreign priori	of Priority Doc ty is claimed)	ument(s)	
6. Application Data Sheet. See 37 CFR 1.76.		16.			Request under 35 or its equivalent.	U.S.C. 122 (b)(2)(B)(i). Appli	icant must attach
		17.	$\boxtimes$	Other: Auth	orization under	37 C.F.R. § 1.136(a)(3)	
			$\boxtimes$	Other: The	name of the assi	gnee is: Broadcom Corpor	ation
			$\boxtimes$	Other: Adva	nce Notification	n Postcard	
18. If a CONTINUIN or in an Application Data  Continuation Prior application in	IG APPLICATION, check appropriate box, and sup a Sheet under 37 CFR 1.76:  Divisional Continuation-in-Part (CI information: Examiner		of p	rior application		ı preliminary amendment,	
considered a part of the di	R DIVISIONAL APPS only: The entire disclosure of the isclosure of the accompanying continuation or division tion has been inadvertently omitted from the submitted	ıal apr	olicatio	on and is hereby	ch an oath or de incorporated by	eclaration is supplied unde reference. The incorporat	r Box 5b, is ion <u>can only</u>
	19. CORRESPO	NDE	NCE	ADDRESS			
Customer Number	26111			·	Correspo	ondence address below	
NAME	STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.						
ADDRESS	Attorneys at Law			<del></del>		· · · · · · · · · · · · · · · · · · ·	
CITY	STATE	Г			ZIP CODE	-	
COUNTRY	TELEPHONE				FAX		
NAME (Print/Type)	Jeffrey T. Helvey		D	intunti 21		44.757	
SIGNATURE	7dl toler	_	reg	sistration No. (At	iorney/Agent)	1/22/04	
	U H III						

This collection of information is required by 37 CFR 1.53(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you are required to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO:: Mall Stop Patent Application, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

## **FEE TRANSMITTAL** for FY 2004

Fifective 10/01/2003. Patent fees are subject to annual revision.

☐ Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT

(\$) 810.00

s are required to respond to a c	ollection of information unless it displays a valid OMB control number				
Complete if Known					
Application Number	To Be Assigned				
Filing Date	H rewith				
First Named Inventor	Hung-Sung Li				
Examiner Name	To B Assigned				
Art Unit	To Be Assigned				
Attorney Docket No.	1875 5510000				

METHOD OF PAYMENT (check all that apply)				F	EE CALCULATION (	continued)		
Check X Credit card Money Order Other** None ** Charge any deficiencies or credit any overpayments in the fees or fee calculations of Parts 1, 2 and 3 below to Deposit Account No. 19-0036.		3. ADDITIONAL FEES						
		Entity	Sm	all Ent	ity			
Deposit Account Deposit Account Number 19-0036	Fee Code	Fee Fee (\$) Co			Fee Description			Fee Paid
Deposit Account Name: Steme, Kessler, Goldstein & Fox P.L.L.C.		130	2051	65	Surcharge - late filing for	ee or oath	ĺ	
The Commissioner is authorized to: (check all that apply)	1502	50	2052	25	Surcharge-late provision	onal filing fee	or cover	
☐ Charge fee(s) indicated below ☐ Credit any over payments	1053	130	1053	130	Non-English specificati	ion		
$\square$ Charge any additional fee(s) during the pendency of this	1812	2,520	1812	2,520	For filing a request for	ex parte reex	camination	
application	1804	920*	1804	920*	Requesting publication	of SIR prior	to Examiner	
☐ Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account.		1,840*	1805	1,840*	action  Requesting publication action	of SIR after	Examiner	
	1251	110	2251	55	Extension for reply with	nin first montl	h	
	1252	420	2252	210	Extension for reply with			
FEE CALCULATION	1253	950	2253	475	Extension for reply with	nin third mont	th	
1. BASIC FILING FEE	1254	1,480	2254	740	Extension for reply with	hin fourth mo	nth	
Large Entity Small Entity	1255	2,010	2255	1,005	Extension for reply with	nin fifth montl	h	
Fee Fee Fee Fee Description Fee Paid	1401	330	2401	165	Notice of Appeal			
Code (\$) Code (\$)	1402	330	2402	165	Filing a brief in support	t of an appea	ı	
1001 770 2001 385 Utility filing fee 770.00	1403	290	2403	145	Request for oral hearing	ng		
1003 530 2003 265 Plant filing fee	1451	1,510	1451	1,510	Petition to institute a pu	ublic use prod	ceeding	
1004 770 2004 385 Reissue filing fee	1452	110	2452	55	Petition to revive - una	voidable	·	
1105 160 2005 80 Provisional filing fee	1453		2453	665	Petition to revive - unin			
SUBTOTAL (1) (\$) 770.00	1501		2501	665	Utility issue fee (or reis			
2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE	1502	480	2502	240	Design issue fee	•		
Fee from Extra below Fee Paid	1503		2503	320	Plant issue fee			
Total Claims 14 - 20** = 0 X 18 = 0  Indep. Claims 3 - 3** = 0 X 84 = 0	1460	130	1460	130	Petitions to the Commi	issioner		
Multiple Dependent 0	1807	50	1807	50	Processing fee under 3	37 CFR 1.17(	(q)	
Large Entity <sub>I</sub> Small Entity	1806	180	1806	180	Submission of Informat	tion Disclosu	re Stmt	
Fee Fee Fee Fee <u>Fee Description</u> Code (\$)	8021	40	8021	40	Recording each patent property (times number	assignment r of propertie	per s)	40.00
1202 18 2202 9 Claims in excess of 20	1809	770	2809	385	Filing a submission after	er final reject	ion (37 CFR	
1201 86 2201 43 Independent claims in excess of 3 1203 290 2203 145 Multiple dependent claim, if not paid	1810	770	2810	385	1.129(a)) For each additional inv	rention to be	examined	
1204 86 2204 43 **Reissue independent claims					For each additional inv (37 CFR 1.129(b))			
over original patent	1801	770	2801	385	Request for Continued	Examination	(RCE)	
1205 18 2205 9 **Reissue claims in excess of 20	1802	900	1802	900	Request for expedited application	examination	of a design	
and over original patent		Other fee (specify)						
SUBTOTAL (2) (\$) 0.00				Filino F	ee Paid	SUBTOTAL	. (3) (\$)	40.00
**or number previously paid, if greater; For Reissue, see above								.5.55
SUBMITTED BY	Desi	tration N				Complete (if	applicable)	
Name (Print/Type)  Jeffrey T. Helvey			o. nt)		44,757	Telephone	202-371-	-2600
Signature John Hiles						Date	1/22/1	M



Robert Greene Sterne Edward J. Kessler Jorge A. Goldstein David K.S. Cornwell Robert W. Esmond Tracy-Gene G. Durkin Michele A. Cimbala Michael B. Ray Robert E. Sokohl Eric K. Steffe Michael Q. Lee Steven R. Ludwig John M. Covert Linda E. Alcom Robert C. Millonig Lawrence B. Bugaisky Donald J. Featherstone Michael V. Messinger

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Of Counsel Kenneth C. Bass III Evan R. Smith

\*Admitted only in Maryland \*Admitted only in Virginia \*Practice Limited to Federal Agencies

January 22, 2004

WRITER'S DIRECT NUMBER:
(202) 772-8675
INTERNET ADDRESS:
JHELVEY@SKGF.COM

Commissioner for Patents PO Box 1450 Alexandria, VA 22313-1450 Mail Stop Patent Application

Re:

U.S. Non-Provisional Utility Patent Application

Appl. No. To Be Assigned; Filed: Herewith

For: Fully Differential Input Buffer with Wide Signal Swing Range

Inventor:

Hung-Sung Li

Our Ref:

1875.5510000

Sir:

The following documents are forwarded herewith for appropriate action by the U.S. Patent and Trademark Office:

- 1. Fee Transmittal Form (PTO/SB/17);
- 2. Utility Patent Application Transmittal Form (PTO/SB/05);
- 3. U.S. Utility Patent Application entitled:

## Fully Differential Input Buffer with Wide Signal Swing Range

and naming as inventor:

Hung-Sung Li

the application consisting of:

- a. An Application Data Sheet (37 C.F.R. § 1.76);
- b. An original executed Declaration;

Sterne, Kessler, Goldstein & Fox PLLC. : 1100 New York Avenue, NW : Washington, DC 20005 : 202.371.2600 f 202.371.2540 : www.skgf.com

Commissioner for Patents January 22, 2004 Page 2

- c. A specification containing:
  - i. 12 pages of description prior to the claims;
  - ii. <u>8</u> pages of claims (14 claims);
  - iii. a one (1) page abstract; and
- d. <u>6</u> sheets of drawings: (Figures 1, 2, 3, 4, 5 and 6);
- 4. Authorization to Treat a Reply As Incorporating An Extension of Time Under 37 C.F.R. § 1.136(a)(3);
- 5. Recordation Form Cover Sheet;
- 6. An original executed Assignment to Broadcom Corporation, recordation of which is hereby respectfully requested;
- 7. Two (2) return postcards; and
- 8. Credit Card Payment Form (PTO-2038) for \$ 810.00 to cover:
  - \$ 770.00 Filing fee for patent application; and
  - \$ 40.00 Assignment recordation fee.

It is respectfully requested that, of the two attached postcards, one be stamped with the filing date of these documents and returned to our courier, and the other, prepaid postcard, be stamped with the filing date and unofficial application number and returned as soon as possible. The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

Respectfully submitted,

Jeff Adver

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.

Jeffrey T. Helvey Agent for Applicant Registration No. 44,757

JTH/LMY:krd Enclosures

SKGF\_DC1:221525.1



## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

**Hung-Sung Li** 

Appl. No.: To Be Assigned

Filed:

Herewith

For:

**Fully Differential Input Buffer** with Wide Signal Swing Range Confirmation No.:

To Be Assigned

Art Unit:

To Be Assigned

Examiner:

To Be Assigned

Atty. Docket:

1875.5510000

## Authorization To Treat A Reply As Incorporating An Extension Of Time Under 37 C.F.R. § 1.136(a)(3)

Commissioner for Patents PO Box 1450 Alexandria, VA 22313-1450

Sir:

The U.S. Patent and Trademark Office is hereby authorized to treat any concurrent or future reply that requires a petition for an extension of time under this paragraph for its timely submission, as incorporating a petition for extension of time for the appropriate length of time. The U.S. Patent and Trademark Office is hereby authorized to charge all required extension of time fees to our Deposit Account No. 19-0036, if such fees are not otherwise provided for in such reply.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.

Jeffrey T. Helvey Agent for Applicant

Registration No. 44,757

TH Helver

Date: 1/22/01

1100 New York Avenue, N.W. Washington, D.C. 20005-3934 (202) 371-2600

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